


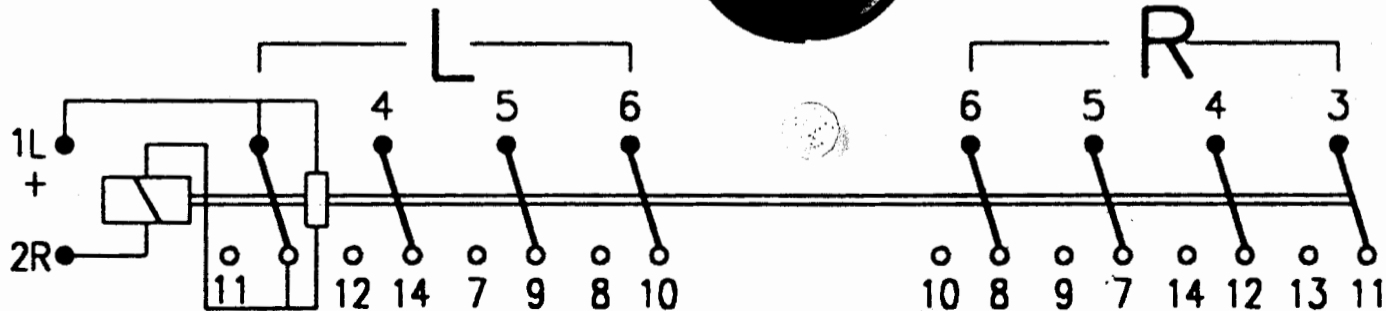
**SMITT**  
RELAYS



0405

**D8-R**  
125VDC

 440V/10A



**Datasheet**

**INSTANTANEOUS RELAY**

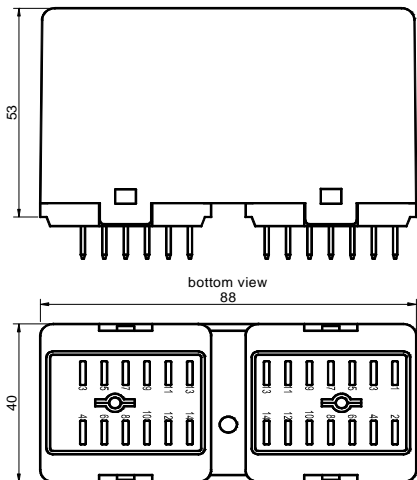
**Products**

**D8-UL**

**Country of Origin**

**The Netherlands**

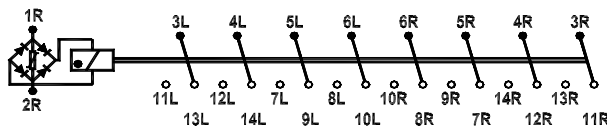
**Dimensions D8-UL**



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**Connection diagram D8-UL**



**Description**

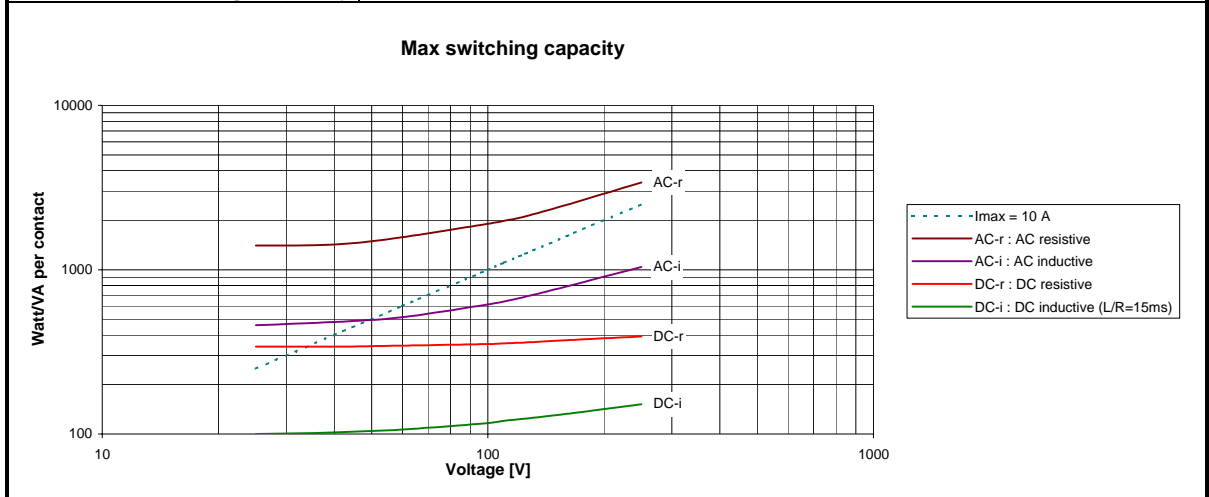
Plug-in relay with eight change-over contacts.  
 Equipped with LED indication.  
 Type D8-UL is a DC/ AC relay.

**Coil Data**

**Operating times at nominal voltage**

Type	R <sub>coil</sub>	
24 - 28 VDC / VAC	222 Ω	
42 - 48 VDC / VAC	680 Ω	
60 - 70 VDC / VAC	1450 Ω	
100 - 110 VDC / VAC	3790 Ω	
220 - 230 VDC / VAC	15300 Ω	
380 - 440 VDC / VAC	56800 Ω	
<b>Pull-in</b>	<b>DC: 17 ms</b>	<b>AC: 18 ms</b>
<b>Drop-out</b>	<b>DC: 12 ms</b>	<b>AC: 12 ms</b>
<b>bounce time</b>	<b>DC: 5 ms</b>	<b>AC: 8 ms</b>
<b>Inductance at U<sub>nom</sub> L/R =</b>	<b>0 ms</b>	
<b>Coil consumption</b>	<b>2.5 - 3.5 W/ VA at U<sub>nom</sub></b>	

<b>Contact data</b>			
<b>Max. Make Current</b>	<b>16 A</b>	<b>Material</b>	<b>Ag</b>
<b>Max. Cont. Current</b>	<b>10 A (AC1; IEC 947)</b>	<b>Contact gap</b>	<b>0.7 mm</b>
<b>Max. Breaking Capacity</b>		<b>Insulation between open contacts</b>	<b>2.5 kV, 50 Hz, 1 min</b>
	<b>D8-L 110 V, 1 A</b>	<b>Contact force</b>	<b>&gt; 200 mN</b>
	<b>D8-UL 440 V</b>		
<b>Min. Switching Voltage</b>	<b>12 V</b>		
<b>Max. Contact Resistance</b>	<b>15 mΩ</b>		
<b>Maximum Switching Capacity</b>			



<b>General Data</b>			
<b>Dielectric strength</b>			
<b>Cont-Coil</b>	<b>Pole-Pole Cont-Coil</b>	<b>IEC 255-5/</b>	<b>4 kV, 50 Hz, 1 min 2.5 kV, 50 Hz, 1 min</b>
<b>Insulation Class</b>		<b>IEC 255-5</b>	<b>serie C 380 V 50Hz/450 VDC</b>
<b>Pulse Withstanding</b>		<b>IEC 255-5</b>	<b>5 kV (1.2/50 μs)</b>
<b>Vibration</b>		<b>IEC 68-2-6</b>	<b>5 g at 50 Hz 2 g, 10-150 Hz</b>
<b>Shock</b>		<b>IEC 68-2-27</b>	<b>15 g, 11 ms</b>
<b>Mechanical life</b>			<b>10<sup>6</sup> ops</b>
<b>Max. Switching Frequency</b>			<b>1200 ops/h</b>
<b>Weight</b>			<b>330 g</b>
<b>Temperature</b>	<b>T<sub>amb,max</sub></b>		<b>+40 °C +55 °C, 1 cm detached Higher T on request</b>
	<b>T<sub>amb,min</sub></b>		<b>-25 °C</b>
<b>Humidity</b>			<b>90%, temporary permitted condensation</b>
<b>Protection</b>			<b>IP 40</b>
<b>Materials</b>			<b>Makrolon Polyester</b>
<b>Options</b>	<b>B</b>		<b>Magnetic arc blow-out</b>
	<b>A</b>		<b>Trip indicator</b>
	<b>T</b>		<b>Push to test button</b>
	<b>BA</b>		<b>Magnetic arc blow-out and trip indicator</b>
	<b>R</b>		<b>Fast switching</b>

**Australian Distributor**



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